

Abstract of the Disclosure

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A surface shape recognition sensor includes a plurality of capacitive₁₀ detection elements, a support electrode, a protective film, and a plurality of projections. The capacitive detection elements are

5 formed from lower electrodes and a deformable plate-like upper electrode made of a metal. The lower electrodes are insulated and isolated from each other and stationarily laid out on a single plane of an interlevel dielectric formed on a semiconductor substrate. The

10 upper electrode is laid out above the lower electrodes₆₀ at a predetermined interval and has a plurality of opening portions. The support electrode is laid out around the lower electrodes₁₀₀ while being insulated and isolated from the lower electrodes, and formed to be

15 higher than the lower electrodes₁₂₀ to support the upper electrode. The protective film is formed on the upper electrode to close the opening portions. The projections are laid out in a region of the protective film₁₂₀ above the capacitive detection element. A method

20 of manufacturing the surface shape recognition sensor is also [disclosed.]